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Platt

[54]			N AND METHOD FOR INGAL DISEASE IN ANIMALS		
[76]	Inventor:		d Platt, One Kendall Sq. Bldg. Cambridge, Mass. 02139-9645		
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[56]		Re	eferences Cited		
U.S. PATENT DOCUMENTS					
		/1979 /1987	Peniston et al		

4,804,750 2/1989 Nishimura et al. 536/20

4,921,949 5/1990 Lang et al. 536/20

4,971,956	11/1990	Suzuki et al 514/55
5,057,542	10/1991	Leuba et al 514/844
5,262,310	11/1993	Karube et al 435/85
5.567.325	10/1996	Townslev et al 210/612

5,891,861

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OTHER PUBLICATIONS

Segal et al., "Inhibition of Adherence of Candida Albicans to Acrylic by a Chitin Derivative" *European Journal of Epidemiology*, vol. 8(3): 350–355, May 1992.

Okamoto et al., "Dramatic Effect of Chitosan on Infection" *Chitin World*, vol. 6: 395–401, 1994.

Ramisz et al., "The Influence of Chitosan on Health and Production in Pigs" *Chitin World*, vol. 6: 612–616, 1994. Ghaouth et al., *Physiol. and Molec. Plant Pathol.*, vol. 44: 417–432, (1994).

Primary Examiner—Howard C. Lee Attorney, Agent, or Firm—Gifford, Krass, Groh, Sprinkle, Anderson & Citkowski, P.C.

[57] ABSTRACT

An oligomer comprised of repeat units of beta glucosamine exhibits broad antifungal activity. The oligomer preferably has a molecular weight in the range of 4,000–18,000 dalton, and may be partially acetylated. These materials are highly effective against a variety of fungi including various species of Candida.

10 Claims, 2 Drawing Sheets